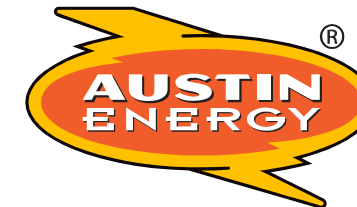


Austin Energy Operational Update Q3 FY19

Austin Energy Utility Oversight Committee – August 2019

Charles Dickerson

Chief Operating Officer, Austin Energy



August 14, 2019

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Austin Energy Operational Update

Discussion Topics



Safety

Performance



Carbon Footprint

Power Production



On-Site Energy
Resources

Future State



Austin Energy Operational Update

Safety



Safety

Data	Q2 FY19 (1/19 – 3/19)	Q3 FY19 (4/19 – 6/19)	
Total Near Misses	23	14	↓
Total Injuries	12	10	↓
Total Recordable Cases	6	5	↓
Total Vehicle Accidents	22	16	↓



Austin Energy Operational Update

Performance



Commercial Availability & Start Success

Commercial Availability

Generation Resource	Target Seasonal Commercial % Availability (Jun-Sep)	Commercial Availability Actuals (%)	
		Q2 FY19 AVG	Q3 FY19 AVG
Decker Steam Units	95	44.5	67.4
Sand Hill Combined Cycle	95	62	72.9
Fayette Units	97	93.9	89.5
South Texas Project	100	100	100

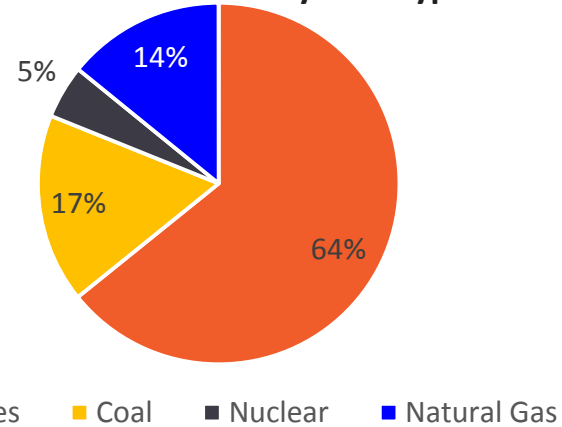
Start Success

	Start Success Target(%)	Start Success Actuals (%)	
		Q2 FY19 AVG	Q2 FY19 AVG
Simple Cycle Start Success	99	99.7	100



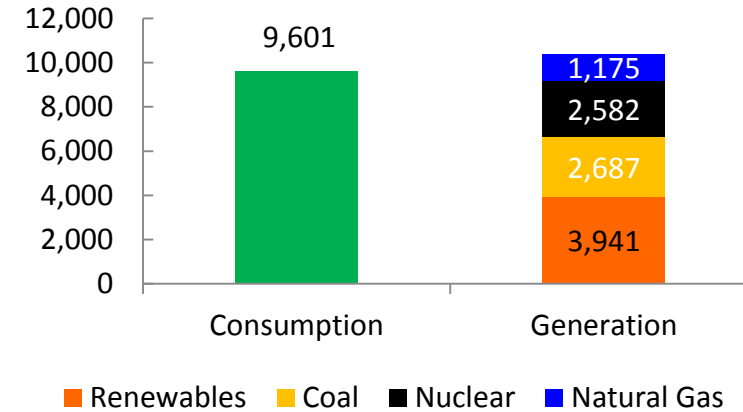
Net Generation and Load Analysis FY 2019 Q3

Power Generation Cost by Fuel Type

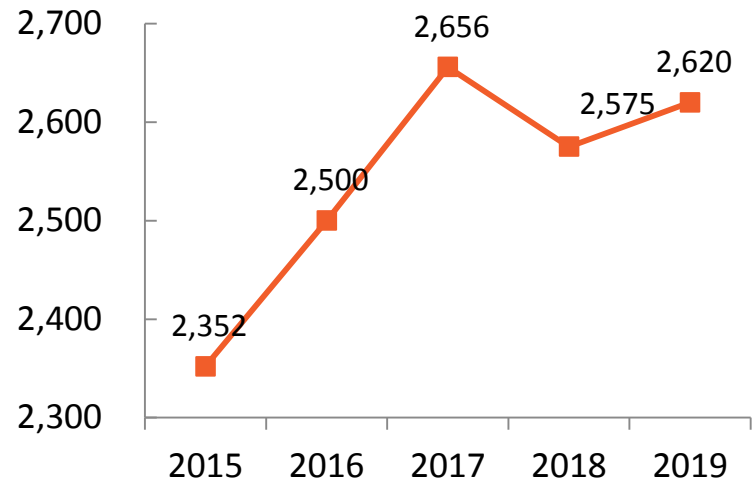


**Costs include fuel for generation, fuel transportation, renewable Power purchases agreements*

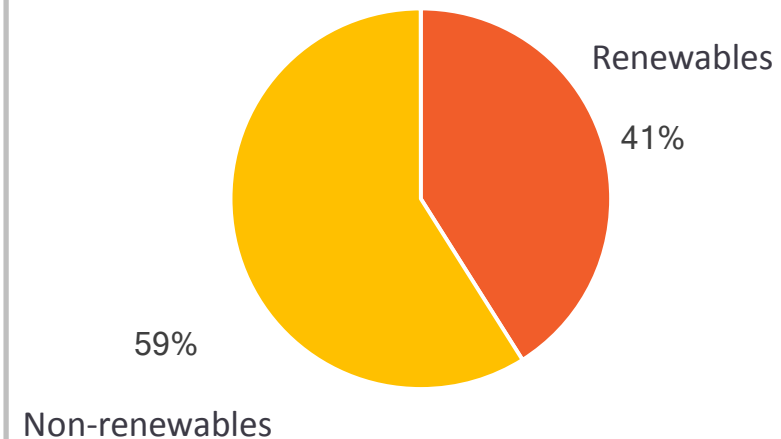
Consumption vs. Generation (GWh)



Historical FY Q3 System Peak Demand (MW)



Renewable Power as Percent of Consumption



System Reliability

CAIDI = Customer Average Interruption Duration Index

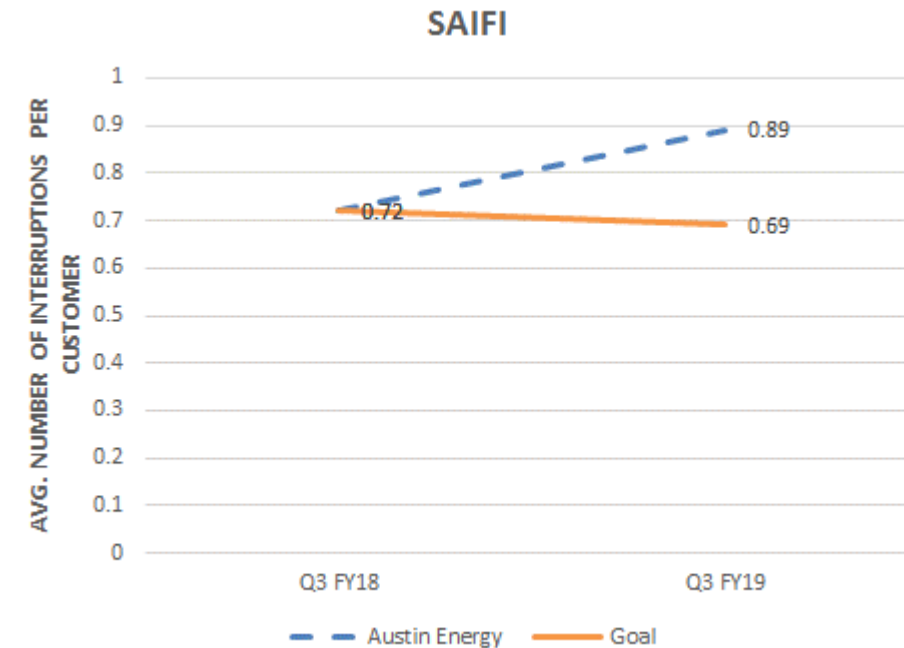
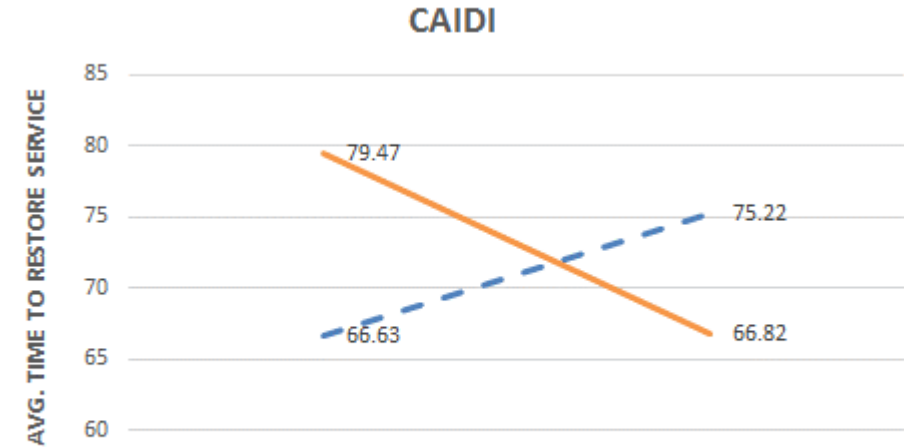
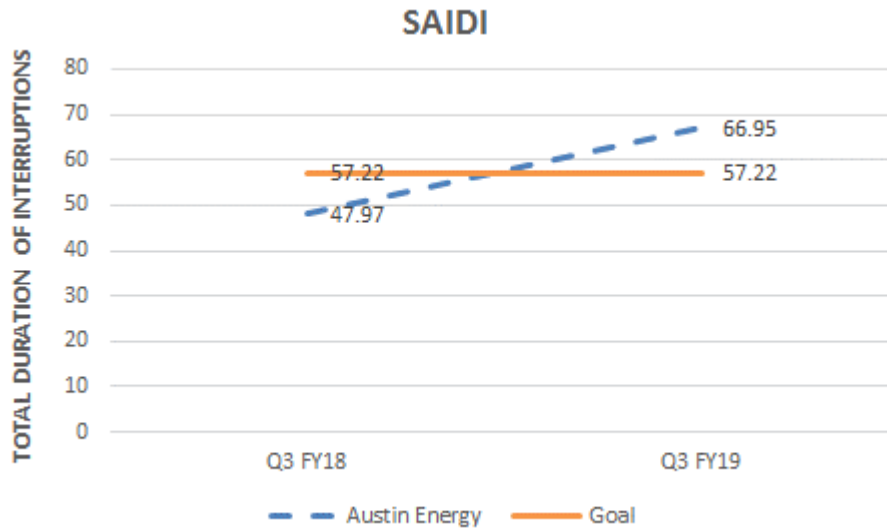
Average time to restore service.

SAIDI = System Average Interruption Duration Index

Total duration of interruptions for the average customer, during a period of time.

SAIFI = System Average Interruption Frequency Index

How often the average customer experiences a sustain interruption, over a period of time.

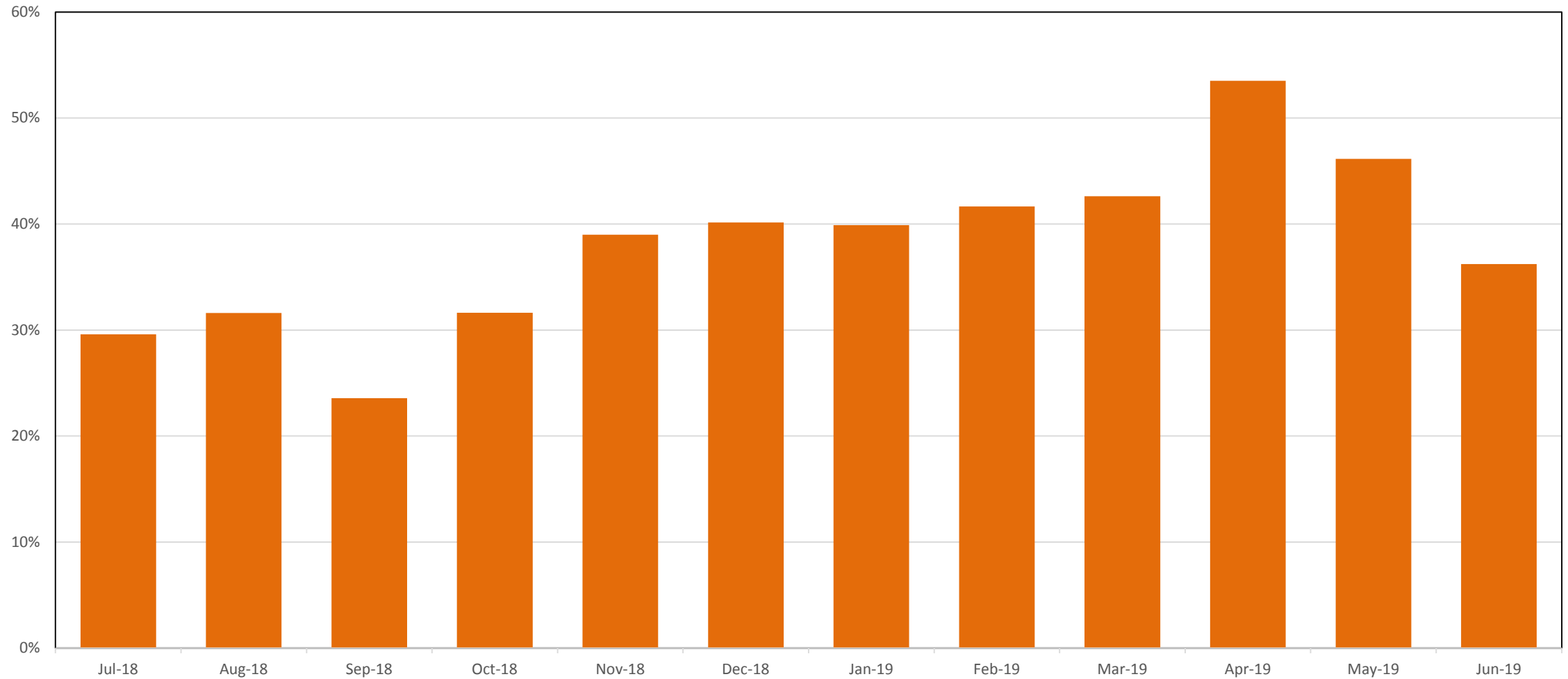


Austin Energy Operational Update

Carbon Footprint



Renewable Generation as a Percentage of Load



Austin Energy Operational Update

Power Production & OSER



Key On Site Energy & Power Production Activities

District Cooling Plant #3 (Downtown, Crescent Tract)

Adding 10,000 tons of chiller capacity in the Downtown System

- **Contractor making progress with the erection of the chiller building structural walls and columns and continues to install underground mechanical piping and electrical conduits.**
- **On-Target for August 2020 completion**

Austin Community College Highland Campus

Constructing a 6,000 ton chiller plant with thermal energy storage tank and Chemical storage shed

- **Contract for buildout was selected and approval of RCA needed from City Council in August 2019**
- **Additional RCA for administrative services will also need council approve in August 2019**
- **On-Target for spring-2021 completion**



Austin Energy Operational Update

Future State



Our Focus

Our Customers (improving reliability and connectivity)

- AMI Upgrades (Residential & Commercial Meters)
- Small Cell Deployment
- Customer Reliability Assessments

Our Community (ensuring the resiliency of the system)

- Repowering Downtown
- Bluff Springs Substation
- 69 to 138kV Conversion

Environmental (reducing our carbon footprint)

- Reducing our fossil fuel
- Expanding Renewable Portfolio

Grid Modernization (innovating to a smart future)

- SHINES Deployment
(Sustainable and Holistic INtegration of Energy Storage and Solar PV)
- Advanced Metering Infrastructure
- Grid Automation
- Distributed Energy Resource Integration
- Asset Management



Austin Energy Operational Update

Appendix



FY19 OH&S Incident Data

		Corporate Comms	Corporate Services	Customer Account Management	Customer Care Services	Customer Energy Solutions	Electric Service Delivery	Environment, Health, & Safety Services	Finance, Accounting, & Rates	Power Production & OSER	Regulatory & Government Affairs	Shared Services	Strategy, Technology, & Markets
KPIs	Recordable Incident Rate	0	0.96	6.21	0	0	2.92	0	0	1.45	0	0	0.77
	<i>DART Rate</i>	0	0.96	4.66	0	0	2.02	0	0	0	0	0	0
	<i>DAFWII Rate</i>	0	0.96	1.55	0	0	0.45	0	0	0	0	0	0
	<i>Severity Rate:</i>	0	1.00	2.63	0	0	0.69	0	0	0	0	0	0
	Vehicle Collision Rate	0	4.79	7.77	0.55	1.29	11.44	9.95	0	1.45	23.40	0	0.77
Incident Data (Raw)	Total Injury/Illness Incidents	1	1	12	5	3	24	2	1	10	1	1	2
	<i>Recordable</i>	0	1	8	0	0	13	0	0	2	0	0	1
	<i>Non-recordable</i>	1	0	4	5	3	11	2	1	8	1	1	1
	Total Vehicle Incidents	0	5	10	1	1	51	2	0	2	1	0	1
	<i>Preventable</i>	0	1	4	1	1	17	1	0	0	1	0	1
	<i>Non-Preventable</i>	0	3	5	0	0	21	1	0	0	0	0	0
	<i>Backing Related</i>	0	0	2	0	0	6	0	0	0	0	0	1
Impact Data (Raw)	Lost Time Cases	0	1	2	0	0	2	0	0	0	0	0	0
	<i>Lost Work Days</i>	0	1	21	0	0	9	0	0	0	0	0	0
	Restricted Time Cases	0	0	4	0	0	7	0	0	0	0	0	0
	<i>Restricted Work Days</i>	0	0	24	0	0	138	0	0	0	0	0	0
	Medical Costs	\$0	\$0	\$1,610	\$0	\$0	\$3,049	\$0	\$0	\$0	\$0	\$0	\$0

Note: Includes preliminary/estimated FY19 data through June 2019.





**Customer Driven.
Community Focused.**



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